6EP3233-0TA00-0AY0

Data sheet



SITOP PSU3400/DC/DC/48V/24V/5A

SITOP PSU3400 24 V/5 A Stabilized power supply Input: 48 V DC (28...60 V) Output: 24 V DC/5 A

nput	
type of the power supply network	DC voltage
supply voltage at AC	
• initial value	Startup as of 36 V, derating necessary for 28 36 V DC
supply voltage	
• at DC	48 48 V
input voltage	
• at DC	28 60 V
design of input wide range input	No
overvoltage overload capability	
operating condition of the mains buffering	at Vin = 48 V
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at Vin = 48 V
input current	
at rated input voltage 48 V	2.7 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.12 A ² ·s
fuse protection type	15 A (not accessible), breaking capacity 100 A
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or C
Dutput	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
 at output 1 at DC rated value 	24 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.3 %
residual ripple	
• maximum	150 mV
• typical	70 mV
voltage peak	
• maximum	250 mV
• typical	220 mV
adjustable output voltage	24 28 V
adjustable output voltage product function output voltage adjustable	24 28 V Yes
<u> </u>	
product function output voltage adjustable	Yes

response delay maximum	0.5 s
voltage increase time of the output voltage	0.00
typical	10 ms
	20 ms
• maximum	20 1115
output current	
rated value	5 A
rated range	0 6 A; 6 A up to +40°C; +60 +70 °C: Derating 2%/K
supplied active power typical	130 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
·	02.0/
efficiency in percent	92 %
power loss [W]	40.14
 at rated output voltage for rated value of the output current typical 	10 W
during no-load operation maximum	1.5 W
Closed-loop control	1.0 **
	0.3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	1 ms
load step 100 to 50% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	Ua < 35 V
• typical	6.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	LED yellow for "overload"
Safety	
galvanic isolation between input and output	Yes
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galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1 Class III
galvanic isolation operating resource protection class protection class IP	Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation operating resource protection class protection class IP Approvals	Safety extra low output voltage Vout according to EN 60950-1 Class III
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 Yes
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking • UL approval	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
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EMC	
standard	
 for emitted interference 	EN 61000-6-3
 for mains harmonics limitation 	not applicable
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-25 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N, FE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm²
width of the enclosure	32 mm
height of the enclosure	100 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.32 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 965 061 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

